

Hilka

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Heavy Duty Power Winch



INSTRUCTION MANUAL

Before using the equipment, please read this booklet thoroughly and follow the instructions carefully, in doing so you will ensure the safety of yourself and that of others around you, and you can look forward to the hand puller giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase. This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

SAFETY PRECAUTIONS

WARNING

As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.

1. Understand the equipment. Learn the pullers' applications and limitations as well as the specific potential hazards peculiar to it.
2. Always inspect the puller before use. Ensure that all parts are in good condition and operating smoothly, and that no cracks or distortion is apparent and the rope is not corroded frayed or damaged in any way. If in doubt do not use.
3. Do not use the hand puller for lifting purposes.
4. Do not exceed the pullers' capacity.
5. Do not use handle extensions.
6. Ensure that all personnel stand well clear of the load, and are not between the load and the hand puller.
7. When using a car as an anchor point ensure that it is "in line" with the load, so that the rope does not pull the car sideways.

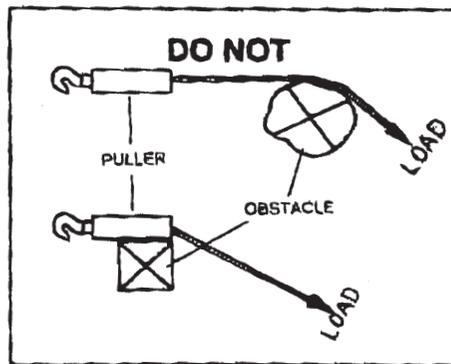
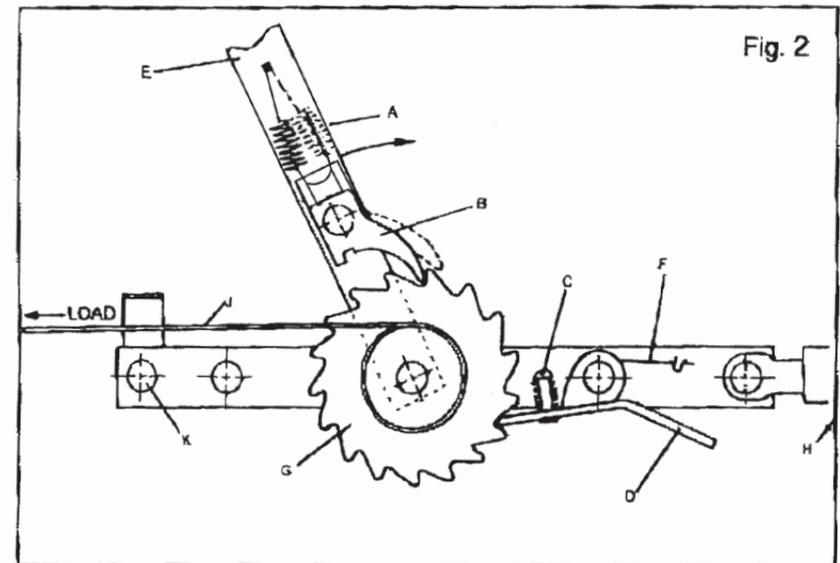


Fig. 1

8. Do not pass the wire rope around tree trunks or gate posts etc., to be used as fulcrum points (see fig. 1) the abrasive action will cause severe damage to the rope.
9. Do not prevent the tool from pivoting to line up with the direction of pull (see fig. 1)
10. It is strongly advised that industrial gloves are worn at all times when using the puller. Take care not to trap fingers within the moving parts.
11. When pulling or dragging a load, be aware that the load may suddenly 'give', eg. Pulling a tree stump etc. Take the necessary precautions.
12. Never allow the rope to be unwound completely. Ensure there is at least ONE complete turn on the drum.
13. Do not wear loose clothing, which could become entangled with the moving parts.

CHARACTERISTICS



The schematic diagram above illustrates the major components as follows:

- | | | | |
|---|-----------------------|---|----------------------|
| A | Pawl Spring | G | Ratchet Wheel |
| B | Pawl | H | Anchor Hook |
| C | Locking Lever Plunger | J | Wire rope |
| D | Locking Lever | K | Wire rope Guide Bolt |
| E | Handle | | |
| F | Locking Lever Spring | | |

OPERATION (Ret. Fig. 2)

1. Winching IN

Move pawl spring (A) in the position shown (in solid lines) in fig 2. This ensures the pawl (B) is held firmly into contact with the ratchet wheel (G) under pressure of spring L. The load, is locked in position by locking lever (D) engaging with a tooth of the ratchet wheel.

Move the handle (E) so that it is pointing towards the load. Now, pulling the handle away from the load, winches the load 'in'.

When the pressure on the handle is relieved slightly, at the end of its' travel, the locking lever (D), engages with one of the teeth of the ratchet wheel, thereby locking the load once more, and the cycle is repeated.

2. Winching OUT

The hand puller has the capability of "winching out", under control, one ratchet tooth at a time.

Move pawl spring to the position shown in dotted lines (fig. 2), freeing the handle to move in the direction of the anchor. (The load meanwhile is being held by the locking lever).

As the handle nears the end of its travel, the pawl is forced into contact with the ratchet wheel, by the spring loaded locking lever plunger (C) and eventually, locks into one of the teeth. Continue to turn the handle, causing the pawl to turn the ratchet wheel slightly, taking the full load from the locking lever (i.e. effectively, winching "in"). When you have taken the full load, allow the handle to move back towards the load. The ratchet wheel will move one tooth, paying out the rope by the same amount, until the locking lever locks into place once more under its' spring pressure preventing any further movement, and the cycle is repeated. Note: It is necessary to move the handle only by a small ammount each cycle.

3. Paying out the Wire Rope

In order to pay out the wire rope, first ensure the pawl spring is set to the position shown in dotted lines, fig. 2, so that the pawl is held off the ratchet wheel. Holding the puller firmly with the handle uppermost, and preferably wearing a good pair of heavy duty gloves, press the locking lever (D), up, thereby disengaging the locking lever from the ratchet wheel.

It is now possible for an assistant, also wearing gloves, to pull the wire rope out, or, having anchored the ropes' hook, walk backwards with the puller to the anchor point, paying out the rope behind you.

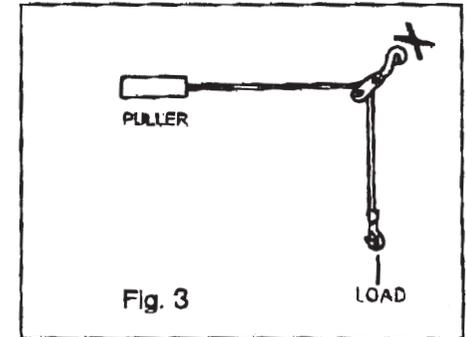
Release the locking lever, and move pawl spring to begin winching 'in'

4. 2:1 or Double Cable Winching

The wire rope is provided with a drop forged safety hook, and a third hook with a pulley attached, which allows a 2 to 1 configuration. To accomplish this, the main hook is looped back and hooked over the bolt which secures the cable guide (K). The third hook, with pulley, is then attached to the load. The length of pull is thereby halved, but the load capability is doubled.

5. Winching in Confined Spaces

The third hook may also be used to winch a load which is not directly in line with the anchor. An example is shown at fig. 3, where the wire rope passes over the pulley of the third hook, which is firmly anchored, and from there to the load.



MAINTENANCH

WARNING

NEVER run your bare hands along the wire rope, always wear a pair of good quality heavy duty industrial gloves.

1. Inspect the puller before use to ensure that it is in good condition, and that it is not damaged in any way. If cracks appear in the frame, do not use. In this event, the tool is past its useful working life.
If the frame is distorted, the tool is considered to be beyond repair and should not be used.
2. Keep the pawl and ratchet pivots, and rope lightly oiled at all times.
3. Inspect the wire rope periodically for corrosion, kinks, broken wire etc.
If corrosion is apparent, clean with a stiff wire brush, and lightly oil. A damaged or badly corroded rope must be replaced.

SPECIFICATIONS

| | |
|-------------------------------------|------------------------------|
| Max. Pulling Capacity (direct pull) | 600kg |
| Max. Pulling Capacity (double rope) | 800kg |
| Max. Pulling Distance (direct pull) | 3000mm |
| Max. Pulling Distance (double rope) | 1500mm |
| Min. Pulling Distance | 500mm |
| Weight | 4kg |
| Rope Type | Twisted Steel Cable 5mm dia. |